ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Livestock Facility Inspection Checklist

GENERAL INFORMATION

TYPE OF INSPECTION:
☒ CAFO ☐ COMPLAINT ☐ RECONNAISSANCE ☐ ERU FOLLOW UP ☐ OPERATOR REQUEST ☐ OTHER

FACILITY NAME (LLC, Inc., Corp, Partnership, sole proprietorship, etc.)	INSPECTION DATE	ARRIVAL TIME
FAY-BLA-MAR, Inc	**04-26-11**	**12:50PM**

ADDRESS	INSPECTOR(s)	DEPARTURE TIME
6740 State Rt. 153	**BER**	**3:15PM**

CITY	STATE	ZIP CODE	ACCOMPANIED BY (if applicable)
Oakdale	**IL**	**62268**	**JDS/BDR**

LEGAL DESCRIPTION	COUNTY	SECTION	TOWNSHIP	RANGE	TEMPERATURE	PRECIPITATION TYPE
	Washington	**36**	**2S**	**5W**	**71 F**	**2.6 last 24 hours**

	NAME	CONTACTED	PHONE	MOBILE
Facility Owner(s): Exemption 6 and Exemption 7C	**Blake Helbig**	☒ YES ☐ NO	Exemption 6 and Exemption 7C	Exemption 6 and Exemption 7C
	ADDRESS	CITY	STATE	ZIP CODE
	NAME	CONTACTED	PHONE	MOBILE
	Marvin helbig	☒ YES ☐ NO	Exemption 6 and Exemption 7C	Exemption 6 and Exemption 7C
	ADDRESS	CITY	STATE	ZIP CODE
	6740 State Rt 153	**Oakdale**	**IL**	**62268**
Facility Operator(s): Exemption 6 and Exemption 7C	NAME	CONTACTED ☐ YES ☐ NO	PHONE	MOBILE
	ADDRESS	CITY	STATE	ZIP CODE
	NAME	CONTACTED ☐ YES ☐ NO	PHONE	MOBILE
	ADDRESS	CITY	STATE	ZIP CODE

NPDES PERMIT INFORMATION (If no NPDES Permit, skip this section)

1. What type of NPDES permit has been issued? ☐ Individual NPDES Permit ☐ General NPDES Permit	NPDES #	
2. What date was the NPDES permit issued?		
3. What date does the NPDES permit expire?		
4. Is a copy of the NPDES permit onsite?	☐ YES	☐ NO
5. Permitted number of animal units?		
6. Does the NPDES Permit contain a compliance schedule?	☐ YES	☐ NO
7. Have there been any changes made to the production area since the permit was issued?	☐ YES	☐ NO

If "YES", provide a detailed description of those changes.

None

LAND APPLICATION/NUTRIENT MANAGEMENT		
1. How many TOTAL acres are available for land application? **1484** acres		
2. How many acres are READILY available for land application at the time of inspection? **1484** acres		
3. Estimated annual quantities of liquid waste **10.5 million** gallons		
4. Estimated annual quantities of solid waste **510** tons		
5. Does the facility have a contractor perform land application? If "YES", Name of Contractor: _____	☐ YES	☒ NO
6. What type of land application equipment is available to the facility? ☒ Umbilical Injection ☐ Honeywagon Injection ☐ Honeywagon Surface ☐ Irrigation ☐ Rotational Gun ☒ Manure Spreader ☐ Vegetative Filter ☐ Other _____		
7. Does the facility calibrate the land application equipment? If "YES", What method is used? **Flow meter on umbilical and manufacturer recommendations. Keep track of acreage and application rates.**	☒ YES	☐ NO
8. Does the facility land apply within the 150 foot setback from any water well? If "YES", Explain	☐ YES	☒ NO
9. Does the facility land apply within the 200 foot setback from any surface water? If "YES", Explain	☐ YES	☒ NO
10. Does the facility land apply near any residences? If "YES", Explain	☐ YES	☒ NO
11. Is livestock waste transferred off-site to another party? If "YES", Are records of manure transfers kept? If "YES", Ask to see records	☐ YES ☐ YES	☒ NO ☒ NO
12. Does the facility have a current NMP or CNMP? If "YES", Does the facility maintain a copy of the nutrient management plan (NMP) onsite?	☒ YES ☒ YES	☐ NO ☐ NO
13. Does the NMP reflect the current operational characteristics (number of animals, cropping, etc.)?	☒ YES	☐ NO
14. Are the number of acres owned/leased consistent with those in the NMP?	☒ YES	☐ NO
15. Is manure and wastewater being applied in accordance with setback/buffer requirements of the NMP?	☒ YES	☐ NO
16. Are all of the records identified in the NMP being maintained and kept current?	☒ YES	☐ NO
17. Are records being maintained at the required frequency?	☒ YES	☐ NO
18. Are records being maintained onsite for the period required by NMP and/or NPDES permit?	☒ YES	☐ NO
19. Is the NMP adequately addressing the storage, handling and application of manure and wastewater to prevent discharges to waters of the U.S.?	☒ YES	☐ NO

LIVESTOCK FACILITY DESCRIPTION

Facility Type	
☐ Total Confinement Buildings	☐ Open Earthen Feedlot
☒ Open Confinement Buildings	☐ Vegetated Pasture
☒ Open Concrete Feedlot	☐ Other _____

Type of Animals	Number of Animals (currently)	Capacity	Type of Confinement
DAIRY MILKING	**750**	**750**	**Open Confinement**
DAIRY DRY	**50**	**50**	**Open Concrete**

Does the facility have an Illinois Certified Livestock Manager (300 or greater animal units)?	☐ N/A	☒ YES	☐ NO
If greater than 1000 animal units but less than 5000 animal units, does the facility have a waste management plan?	☐ N/A	☒ YES	☐ NO
If greater than 5000 animal units, has the facility submitted a waste management plan to IDOA for review?	☒ N/A	☐ YES	☐ NO
Does the facility have any other locations under common ownership, or where equipment and/or manure is shared, or where the other site shares land application sites? If so, put names and addresses below. **None**		☐ YES	☒ NO

LIVESTOCK WASTE STORAGE

1. Does the facility have any existing livestock waste containment system? ☒ YES ☐ NO
   If NO, then proceed to question 10.

2. General description of the waste containment system (include solid and liquid manure handling, mortality, and feed storage areas).
   Settling basins (0.8 Million gallons), Lagoon 1 (sand separation 1.5 million gallons), Lagoon 2 main holding structure (8.5 million gallons), Retention basin (4.3 million gallons) used for retaining dry cattle and bunker. Will land apply from the retention basin.

Type of Storage	Total Storage Capacity (Specify Units)
☐ Anaerobic Lagoon	
☐ Covered Lagoon	
☒ Holding Pond	**3 Holding Ponds (lagoon 1, 2, and retention)**
☐ Above Ground Storage Tank ("Slurrystore")	
☐ Below Ground Storage Tank	
☐ Settling Basin	
☐ Roofed Storage Shed	
☐ Concrete Pad	
☐ Impervious Soil Pad	
☐ Underfloor Pits	
☐ Anaerobic Digester	
☐ Manure Stacks	
☐ Vegetative Filter	
☐ Other _____	
☐ None	

3. Do the storage structures have depth markers or staff gauges? ☒ YES ☐ NO

4. Are levels of manure in the storage structures recorded and records kept? ☐ YES ☒ NO

5. Do the storage structures have adequate freeboard? ☒ YES ☐ NO

6. Estimated final stage storage structure freeboard **144** in.

7. Do facility personnel perform routine visual inspections of the storage structures? ☒ YES ☐ NO

8. Are the routine visual inspections documented? ☐ YES ☒ NO

9. Does the system have an outfall or discharge point? ☐ YES ☒ NO

If "YES", please provide a description (overflow pipe, spill way, etc. Include a description the area receiving the discharge).
None

10. Are there any portions of the production area where runoff is not controlled? ☐ YES ☒ NO

If "YES", provide a detailed description of the area(s) of concern:
None

MORTALITIES MANAGEMENT

1. How are mortalities managed? (Composted, buried, burned, rendering service, other)
Composted.

2. Are mortalities documented and are records kept? ☒ YES ☐ NO

FACILITY WATER SOURCES

1. What type of method is used to provide drinking water for the animals?
   ☐ Overflow waters ☐ Tip Tanks ☐ Nipple waters ☒ Water Bowls ☐ Other _____

2. How is the water for animals obtained?
   ☐ Community PWS ☐ On-Site Well ☒ On-Site Impoundment ☐ Other _____

3. Is a mist cooling system used? ☐ YES ☒ NO
   How is mist water contained?
   None

DAIRY OPERATION (If No Dairy, skip this section)

1. How many times per day are cows milked? **3**

2. Describe how the dairy's non-contact cooling water is contained (Example: it is reused for drinking water for the animals).
   None

3. Describe how the milking parlor is cleaned (hose or flush) and where the process wastewater goes and how it is contained.
   Hose and contained in lagoon 2.

4. Describe how the tank(s) are washed and where the process wastewater goes and how it is contained.
   Lagoon 2.

5. Describe where process wastewater from the plate cooler goes and how it is contained.
   None

BEDDING (If No Bedding, skip this section)

1. Describe what type of bedding is used for the animals.
   Sand

2. Describe how bedding is collected and how often.
   Sand separation is continuous.

3. What is done with the used bedding? ☒ Reused ☐ Land Applied

MANURE COLLECTION

1. How is manure collected?

- ☐ Under Floor Pit
- ☒ Scraped: ☐ Automatic ☒ Manual
- ☒ Flush
- ☐ Solids Separator
- ☐ Other: _____
- ☐ None

2. If manure collection system uses either clean or reused water to flush, describe where this water goes and how it is contained.

Lagoon 1 and Lagoon 2.

FEED STORAGE CONTAINMENT

1. Describe how feed (silage, hay, etc) is contained.

- ☐ Bulk Bins
- ☒ Silage Pit
- ☐ Ag Bags
- ☐ Hay: ☐ Barn ☐ Outdoor
- ☐ Other: _____

2. Describe how feed (silage, hay, etc) runoff is contained.

- ☐ Not Applicable – Feed totally enclosed
- ☒ Other: **Retention Basin**
- ☐ None

RECEIVING SURFACE WATERS

1. Provide a description of the flow path from the facility to the nearest named surface water.

Overland flow and small unnamed conveyances 3 miles to Elkhorn Creek.

2. What is the name of the receiving stream?

Elkhorn Creek

3. Status of the named surface water: ☐ Intermittent ☒ Perennial

4. Are any unnatural bottom deposits observed in the receiving stream: ☐ YES ☒ NO

If "YES", provide a description of the deposits: **None**

DISCHARGES		
1. Have there been any documented discharges of livestock waste to surface water ***in the past year***? If "NO" proceed to question 2.	☒ YES	☐ NO
a. If "YES", specify the date(s). **04/19/11**		
b. What was the reason for the discharge? **Precipitation event following land application.**		
c. Was the discharge the result of a 25 year-24 hour rainfall event?	☐ YES	☒ NO
d. What was the precipitation amount? *(if applicable)* **1.6 inches**		
e. Was IEMA notified of the discharge?	☒ YES	☐ NO
f. Has the facility taken corrective action to remedy the situation which caused the discharge(s)?	☒ YES	☐ NO
If "YES", describe actions taken: **Flushing field ditches and removing pooled manure from creek. Increase in setback from dry ditches that are potential drainage points for the field during heavy precipitation events.**		
2. Is the facility currently discharging livestock waste from the production area? If "NO" proceed to next section.	☐ YES	☒ NO
b. Was the discharge the result of a 25 year-24 hour rainfall event?	☐ YES	☐ NO
c. What was the precipitation amount? *(if applicable)*		
d. What is the reason for the discharge?		

OTHER COMMENTS/NOTES

A conservation police officer requested assistance with manure in a creek leading to a complaint investigation on 04/19/11 by Brian Rodely and Joe Stitely. Manure was observed in a field ditch that was washed off land application by precipitation (see attached photo pages and narrative). Samples were taken of the field ditch and small creek on neighboring property.

A reconnaisance inspection was conducted on 04/21/11 by Brian Rodely and Bruce Rodely to determine the status of waterway clean up. There was no remaining manure in the ditches and creek observed on this date.

A facility wide inspection was completed by Brian Rodely and Bruce Rodely on 04/26/11. Freestall barns are flushed 4 times per day and flush water goes through sand separation then to lagoon 1 where additional separation occurs and water is reused or overflows to lagoon 2. Lagoon 2 is pumped for field application. About 75% of sand is recovered and reused. Compost leachate is captured by the retention basin. Feed is provided under roof of the freestall barns.There was no discharge from the facility noted during the inspection conducted 04/26/11.

Will an inspection report be attached? ☒ YES ☐ NO

INSPECTOR'S SIGNATURE	**REPORT DATE**
Brian Rodely	**06/29/11**

Cc: BOW/DWPC/RU Attachments: **Narrative, photo pages, sampling, site plan, and sample results.**

FAY BLA MAR – 110426 Checklist Supplement

April 19, 2011 Complaint Response:

On 04/19/11 Joe Stitely and I (Brian Rodely) responded to a request by Washington County Conservation Police Officer Eric Charles concerning manure in a creek east of State Route 153 and crossing Jimtown Road in rural Oakdale, IL. We arrived at approximately 2:30PM and met with Charles on Jimtown Road where we followed him to an unnamed creek in a field crossing approximately ¼ mile south of Jimtown Road and ¼ mile west of Coolidge Road. The water in the creek appeared dark with an odor of livestock waste. We walked upstream of the creek over ¼ mile to the southwest until reaching a field ditch running straight west toward FAY BLA MAR Dairy where the water appeared very dark with manure solids in the field ditch It was noted that clear water was present upstream to the southwest of the field ditch in the unnamed creek.

We walked the field ditch west approximately 500 feet where we observed a field that had recently been injected with liquid manure and surface applied with solids to the north. Drainage of the field application entered the field ditch from a swale of the applied field and from a small field ditch that runs north along what appeared to be a property boundary. Manure solids were noted in the north-south field ditch to the north where surface solid application had occurred and the east-west field ditch tributary to the unnamed creek. At that time I made contact with Blake Helbig using a cell phone and explained our location which was approximately ¼ mile directly east of the FAY BLA MAR Dairy. We were met by Blake and Marvin Helbig at the field edge where the manure appeared to have been washed into the field ditches from recent rainfall.

Blake and Marvin indicated that they had land applied the previous two days before a large precipitation event occurred where they received about 1.6 inches of rain in a very short time apparently washing some of the manure from the field into the field ditch which was dry during land application. The Helbigs utilized chiseling to maintain a buffer from the liquid umbilical injection applied area to absorb any liquid that may runoff from precipitation to the greatest extent possible. Surface application had not been incorporated prior to the rain event. It was noted that land application in relatively wet conditions was necessary this year due to the extraordinary rainfall received in the spring and the need to develop storage capacity. Blake accompanied us on a tour of the land application sites to the north to determine if other routes of manure entry to ditches were noted. There were no other routes of manure entry to field ditches or creeks noted from the land application sites of the contiguous field or fields located north of Jimtown Road.

Sampling was conducted on the west end of the east-west field ditch and in the unnamed creek on neighboring property. Sample A was taken in the unnamed creek approximately 50 feet upstream of the confluence of the unnamed creek and east-west field ditch, sample B was taken at the west end of the east-west field ditch near Helbig property, sample C was taken at the east end of the east-west field ditch, and sample C1 was taken in the unnamed creek approximately 50 feet downstream of the confluence of the east-west ditch and the unnamed creek. Sample results are attached and show evidence of manure reaching the waters of the state on neighboring property.

Blake indicated that he would immediately begin flushing and collecting the water from the field ditches and the unnamed creek by damming up the waterway and flushing with clean water. Operations had begun before we left the site at approximately 5:15PM.

April 21, 2011 Reconnaissance Inspection:

On 04/21/11 Bruce Rodely and I arrived at the unnamed creek at approximately 11:40AMto determine the status of the ditch following cleanup. We walked the creek and ditches to observe the conditions of the water following cleanup. There were no observed manure solids in the ditches or creek on the date of inspection and the water appeared clear. We proceeded to the farm and met with Blake Helbig. I told Blake that the ditch appeared to be clean and he indicated that they worked most of the night on 04/19/11 to flush the ditches and clean up pooled water in the unnamed creek to complete work before a forecast rain event. I indicated that we needed perform a complete inspection of the facility and review their CNMP. Blake indicated that the CNMP was currently being updated and they would be able to meet with us on 04/26/11 for an inspection of the facility with the updated CNMP. We left the facility at approximately 3:15PM.

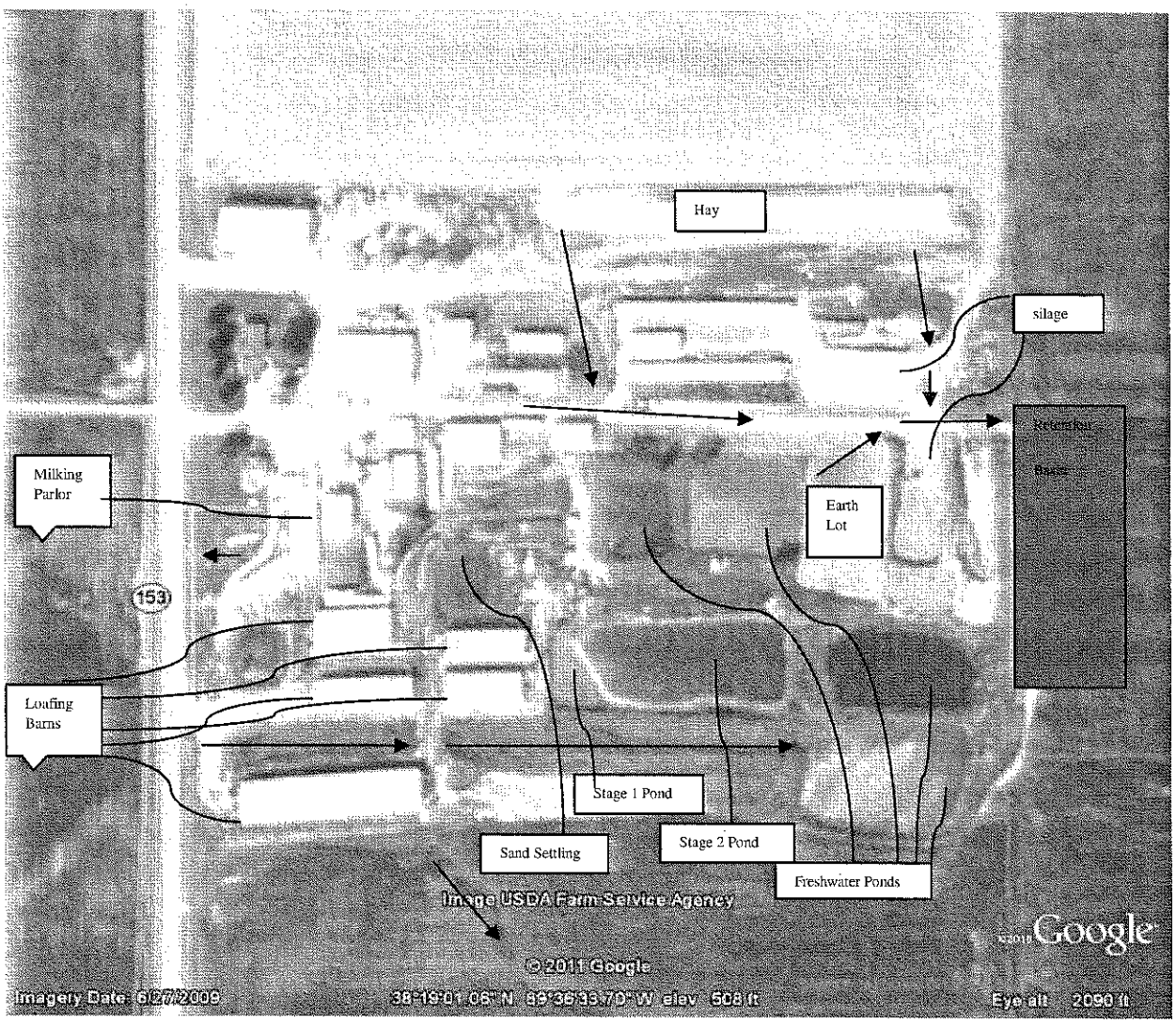
April 26, 2011 Facility Inspection:

On 04/26/11 Bruce Rodely and I arrived at the FAY BLA MAR Dairy at approximately 12:50 PM and met with Marvin Helbig to complete a facility inspection. We met in the shop, reviewed the CNMP, records, and completed most of the inspection checklist. Facility information can be found on the 04/26/11 checklist. We toured the facility and there were no discharges noted at the time of inspection. We left the facility at approximately 3:15 PM.

Summary/Proposed Actions:

It appears a significant heavy rainfall immediately after land application caused manure to runoff from the land application site into field ditches reporting to an unnamed creek on neighboring property without knowledge of the producer. Manure was applied consistent with the requirements of the CNMP and pursuant to 40CFR122.23(e)(1), "a precipitation-related discharge of manure, litter, or process wastewater from land areas under the control of a CAFO is an agricultural stormwater discharge". Therefore, recommended actions are to issue a Violation Notice for Section 12(a) of the Act "No Person Shall Cause or Threaten or Allow the discharge of any contaminants into the environment so as to cause or tend to cause water pollution in Illinois" and Section 12(d) of the Act "No Person Shall deposit any contaminants upon the land in such a place and manner so as to create a water pollution hazard" and 35 IAC 560.207 "livestock waste should not be applied during rainfall or to saturated soil and judgment should be used in planning waste application in conjunction with weather patterns". Recommendations include: Refrain from land application activities of manure to wet soils and when there is a significant chance of precipitation forecast within 24 hours of the application date. Maintain a buffer of 200 feet from standing waters. Provide a vegetative buffer between active land application and field ditches/waterways.

FAY BLA MAR Site Plan - 110426



Arrows show the direction of non-contact storm water drainage. All drainage is contained in the containment ponds or the retention basin. Loafing Barns are shown where curved lines terminate at the building.. There is a small freshwater pond shown at the southeast corner of the dairy. No discharge was observed at the time of inspection on 04-26-11.

LIVESTOCK INSPECTION DIGITAL PHOTOGRAPH PHOTOCOPIES

Photo # 001
Date: April 19, 2011
Time: 4:33 p.m.
Taken By: Brian Rodely DWPC/FOS
Facility: FAY-BLA-MAR, Inc.
Location: E end of E-W Field Ditch
Notes: Riprap field crossing shows dark colored water from settling of manure from recent rain event. This is also sampling location C.

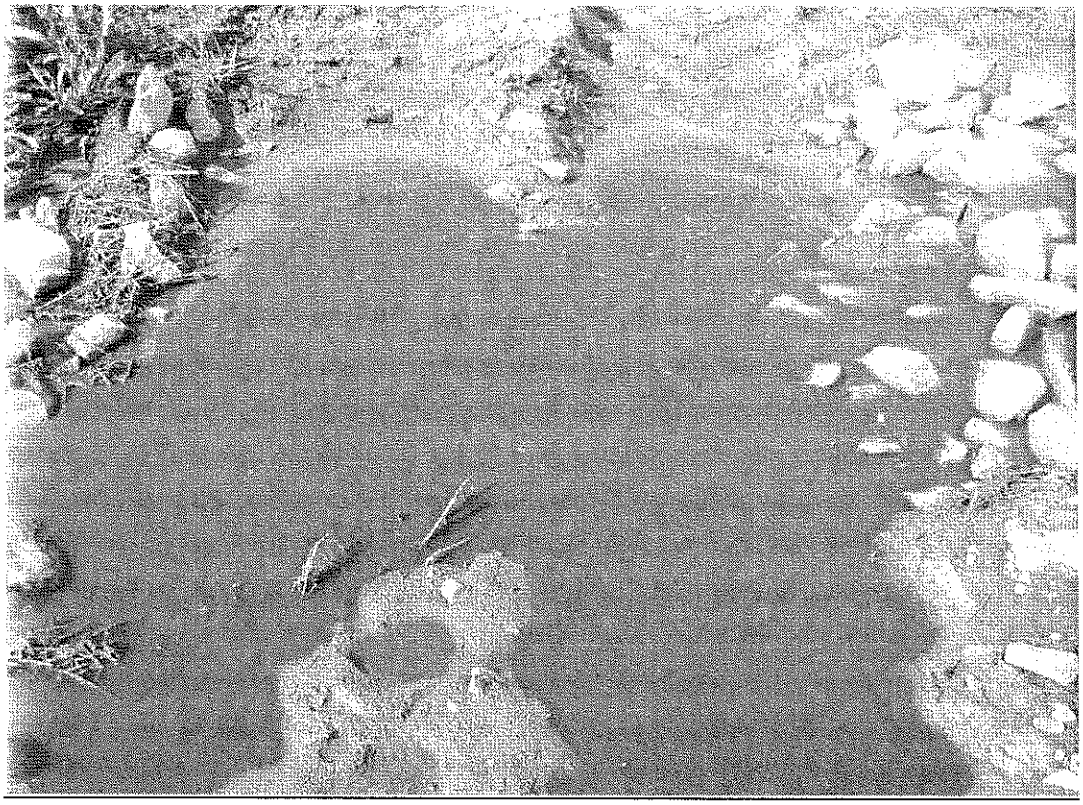
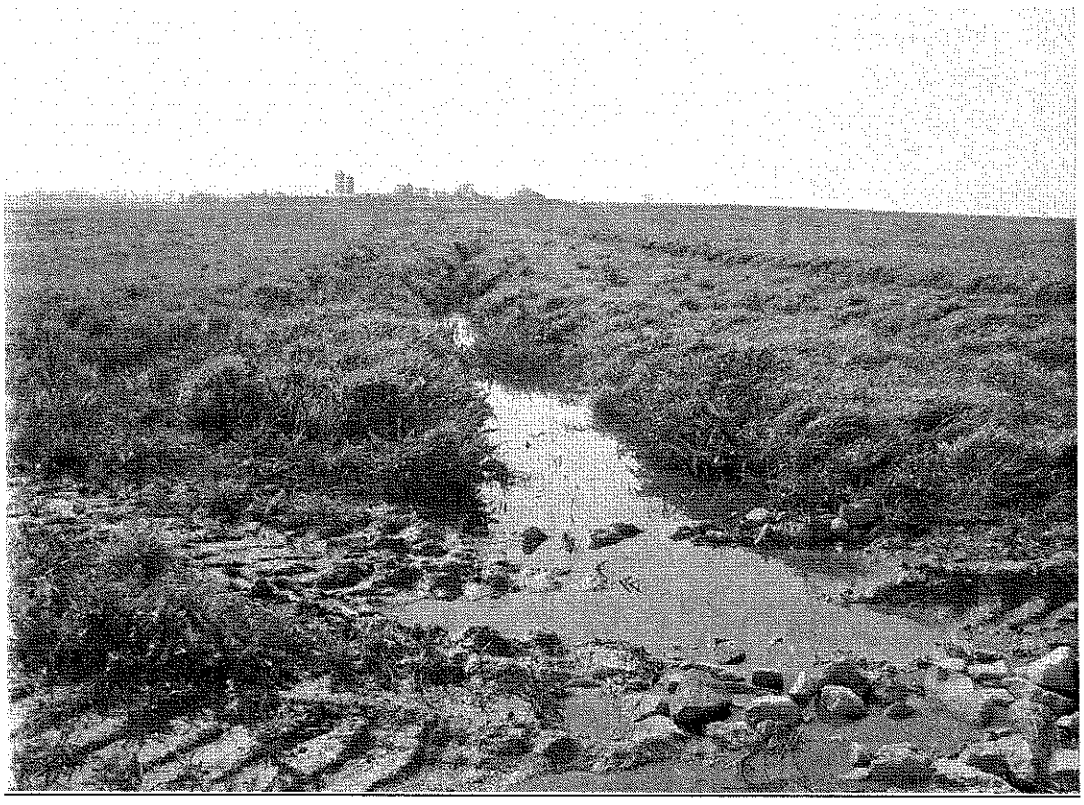


Photo # 002
Date: April 19, 2011
Time: 4:33 p.m.
Taken By: Brian Rodely DWPC/FOS
Facility: FAY-BLA-MAR, Inc.
Location: E end of E-W Field Ditch
Notes: Riprap field crossing facing west where FAY-BLA-MAR Dairy can be seen in the distance. Manure laden water can be seen as the riprap crossing served as a berm to promote manure settling. Sampling location C is located on the west side of the riprap.



LIVESTOCK INSPECTION DIGITAL PHOTOGRAPH PHOTOCOPIES

Photo #
Date: 003
Time: April 19, 2011
Taken By: 4:38 p.m.
Facility: Brian Rodely DWPC/FOS
Location: FAY-BLA-MAR, Inc.
Notes: S end of N-S Field Ditch Manure laden water can be seen in the photo facing north in the north-south ditch where it meets the east-west field ditch. The east-west field ditch is immediately to the right of the camera. Helbig property where land application occurred is to the left (west) of the north/south ditch.

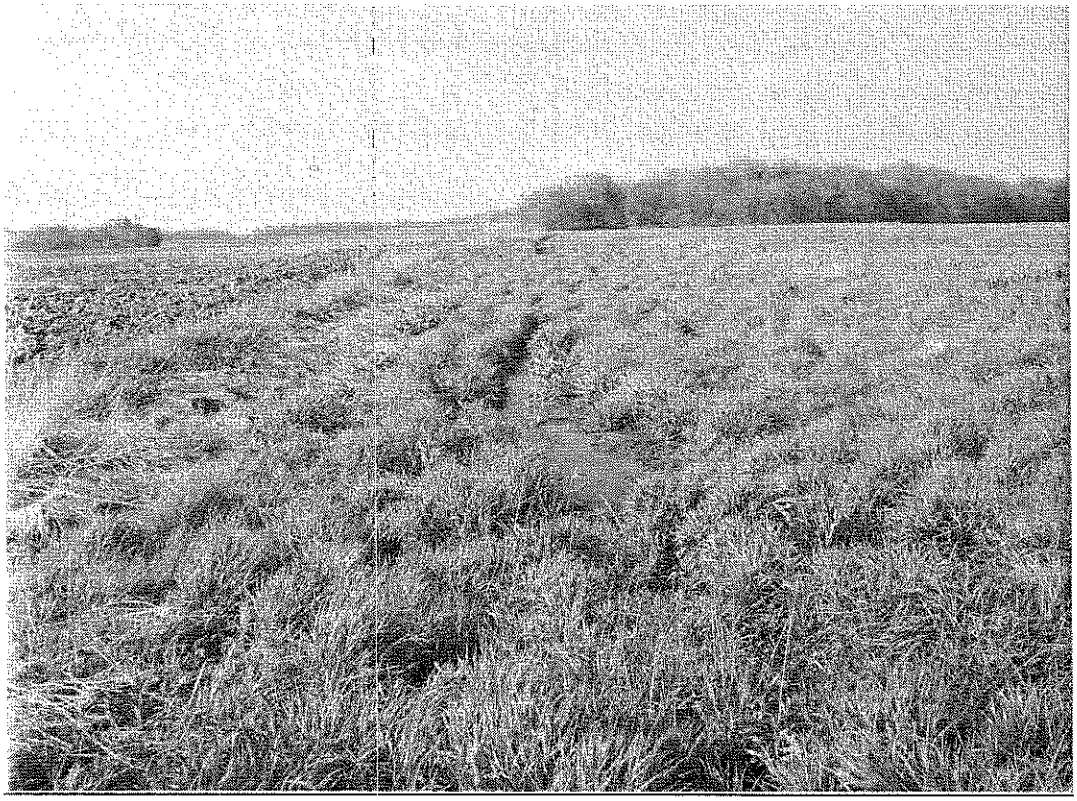
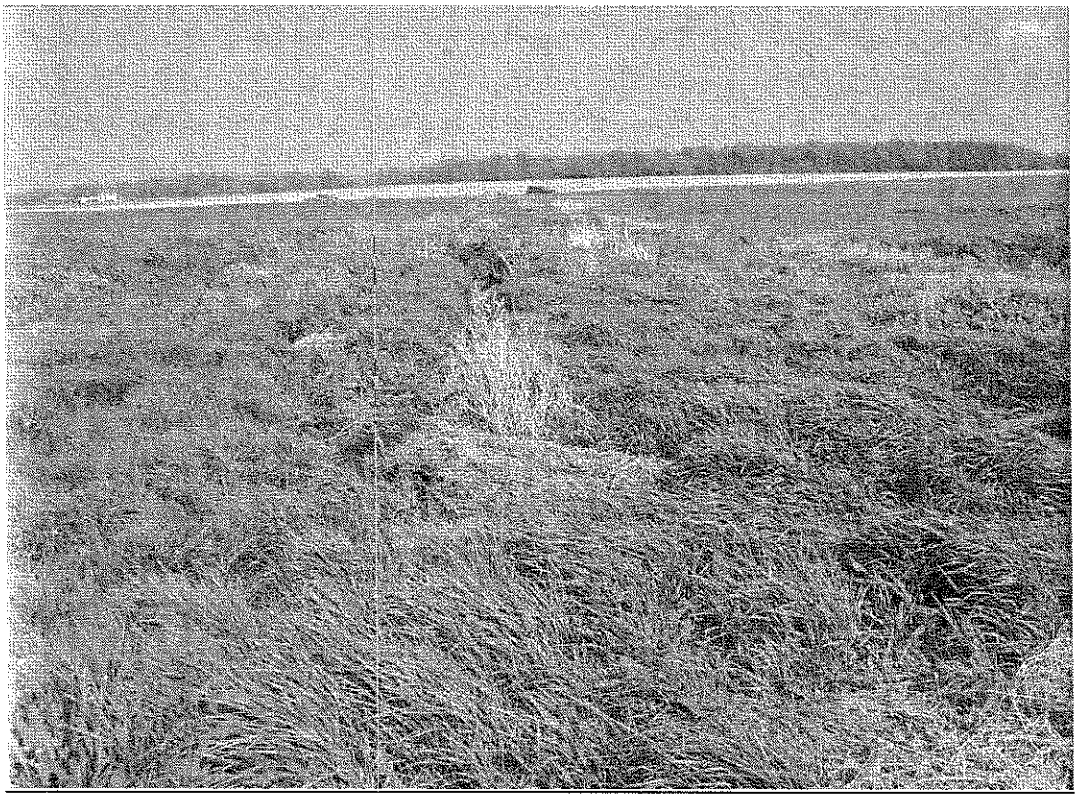


Photo #
Date: 004
Time: April 19, 2011
Taken By: 4:38 p.m.
Facility: Brian Rodely DWPC/FOS
Location: FAY-BLA-MAR, Inc.
Notes: W end of E-W Field Ditch Photo of the east-west field ditch facing east. The unnamed creek is located where the red vehicle can be seen approximately 600 feet east. The north-south field ditch is immediately to the left of the camera. Sample location B is in the ditch where the tall dead weeds are located in the photo center.



LIVESTOCK INSPECTION DIGITAL PHOTOGRAPH PHOTOCOPIES

Photo # 005
Date: April 19, 2011
Time: 4:40 p.m.
Taken By: Brian Rodely DWPC/FOS
Facility: FAY-BLA-MAR, Inc.
Location: W end of E-W Field Ditch
Notes: This photo shows a close up of sample location B. Note the dark manure laden water in the field ditch.

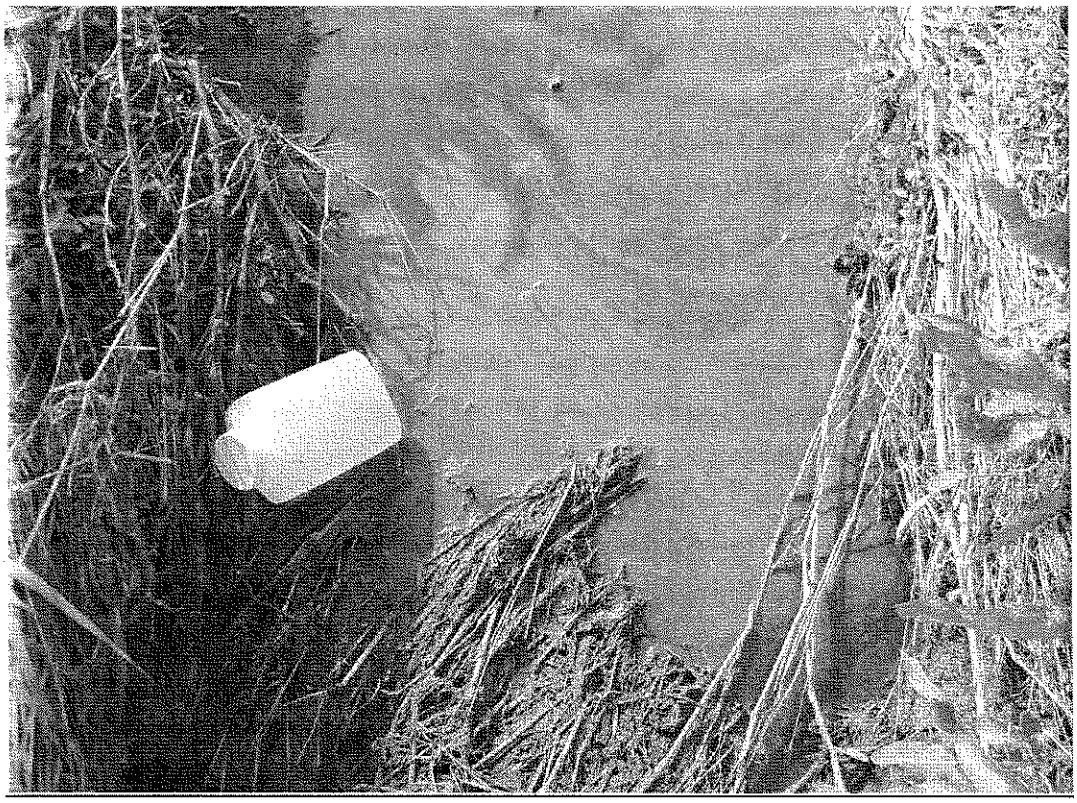


Photo # 006
Date: April 19, 2011
Time: 4:43 p.m.
Taken By: Brian Rodely DWPC/FOS
Facility: FAY-BLA-MAR, Inc.
Location: N end of N-S Field Ditch
Notes: This photo shows the precipitation runoff that entered the N-S field ditch from the land application site. Note the chiseled area adjacent to the field ditch and the buffer area between the chiseled and land application area.

LIVESTOCK INSPECTION DIGITAL PHOTOGRAPH PHOTOCOPIES

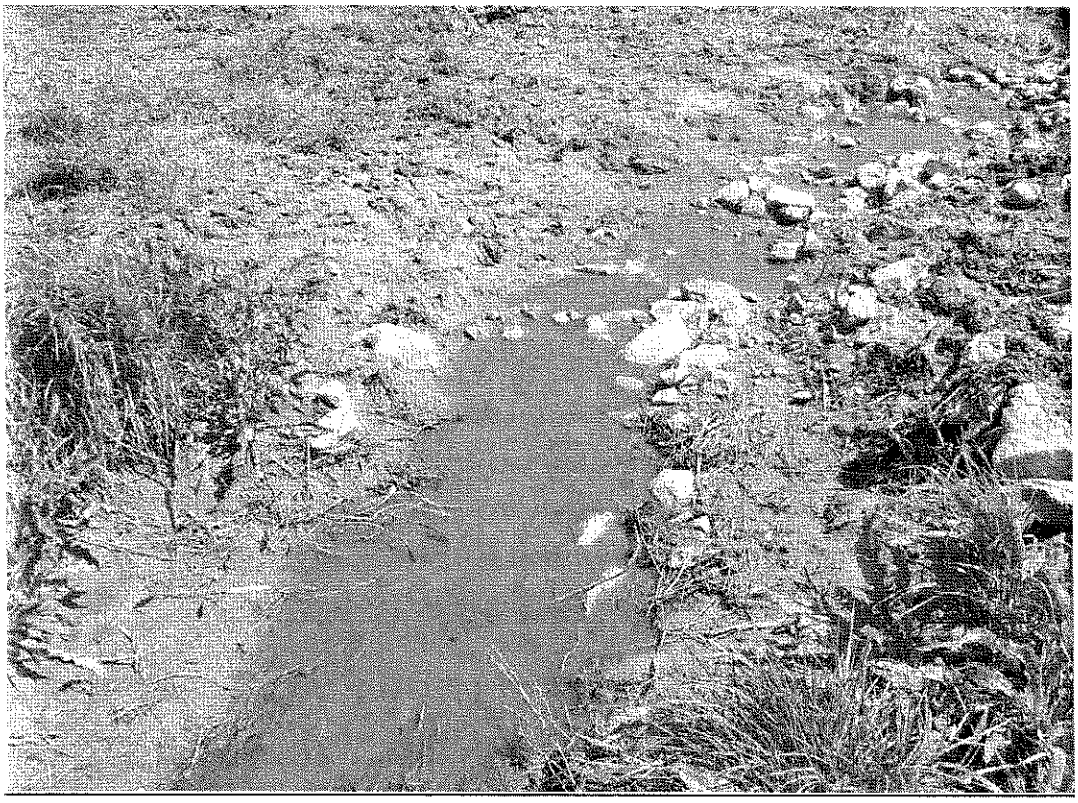
Photo #
Date: 007
Time: April 19, 2011
Taken By: 4:43 p.m.
Facility: Brian Rodely DWPC/FOS
Location: FAY-BLA-MAR, Inc.
Notes: N end of N-S Field Ditch
This photo shows the precipitation runoff that entered the N-S field ditch from the land application site looking north. Note the clear water to the north of the introduction of field runoff from the Helbig site following 1.6 inches of rain.

Photo #
Date: 008
Time: April 19, 2011
Taken By: 4:57 p.m.
Facility: Brian Rodely DWPC/FOS
Location: FAY-BLA-MAR, Inc.
Notes: Upstream Unnamed Creek
This photo shows the activity commencing to dam up the clean water upstream of the east-west field ditch in preparation to damming up the downstream area for flushing of the field ditches.

LIVESTOCK INSPECTION DIGITAL PHOTOGRAPH PHOTOCOPIES

Photo #
Date: 009
Time: April 21, 2011
Taken By: 12:09 p.m.
Facility: Brian Rodely DWPC/FOS
Location: FAY-BLA-MAR, Inc.
Notes: Downstream Creek
This photo shows the removed dam in the unnamed creek downstream the east-west field ditch. Flushing and pumping had occurred throughout the night of 04/19/11 prior to a forecast rain event. Note the clear water in the creek.

Photo # 010
Date: April 21, 2011
Time: 12:10 p.m.
Taken By: Brian Rodely DWPC/FOS
Facility: FAY-BLA-MAR, Inc.
Location: E end of E-W Field Ditch
Notes: Riprap field crossing facing east. Note the clear water in the ditch where manure laden water had been held back by the riprap.



LIVESTOCK INSPECTION DIGITAL PHOTOGRAPH PHOTOCOPIES

Photo #
Date: 011
Time: April 21, 2011
Taken By: 12:39 p.m.
Facility: Brian Rodely DWPC/FOS
Location: FAY-BLA-MAR, Inc.
Notes: W end of E-W Field Ditch
This photo shows a close up of sample location B. Note the clear water in the field ditch following the flushing and pumping that occurred throughout the night on 04/19/11.

FAY BLA MAR Sampling - 110419

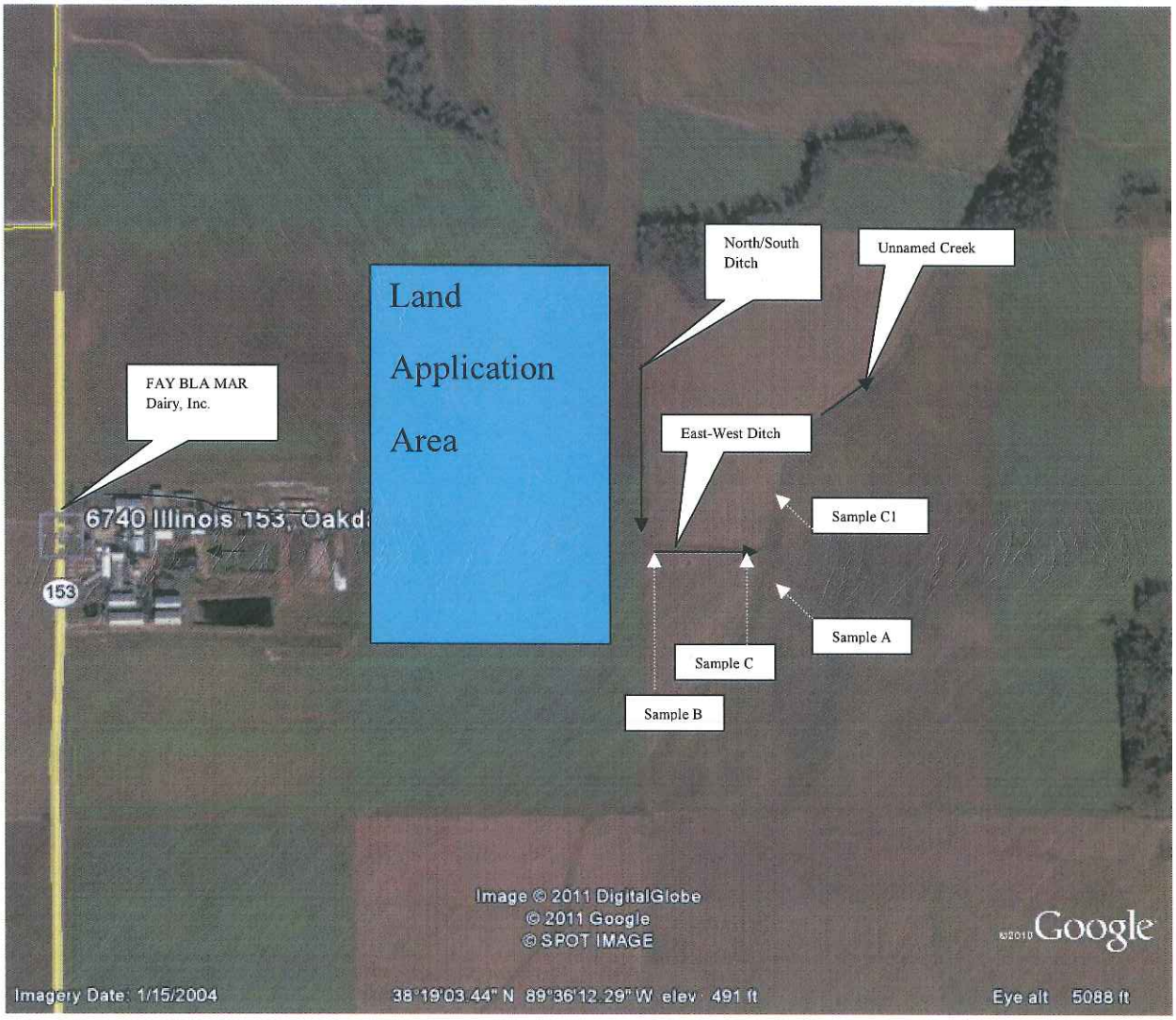


Photo shows the FAY BLA MAR Dairy with land application site, field ditches, and unnamed creek on neighboring property from the 04/19/11 complaint investigation. Sampling points of the field ditches and unnamed creek are shown with white dashed arrows. Flow direction of the field ditches and unnamed creek are shown with black arrows and described with call boxes.

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	FAYBLAMAR DAIRY FARM		
Project/Facility Number:	SAMPLE A	Date Received :	04/21/11
Funding Code:	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**SAMPLE A**	Lab Sample ID:	**SD10997-01**
Matrix:	Water	Collected By: JDS	Date/Time Collected: 04/19/11 16:45
Sample Type:	Grab	Sample Depth:	Total Depth:

pH

Method:	150.1	Prepared:	04/21/11 13:47
Units:	PH	Analyzed:	04/21/11 13:50

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**8.1**		0.0	

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/26/11 13:10
Units:	mg/L	Analyzed:	04/28/11 09:38

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**0.298**		0.0050	

Total Suspended Solids by Standard Method 2540D

Method:	2540D	Prepared:	04/22/11 07:48
Units:	mg/L	Analyzed:	04/22/11 07:48

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Suspended Solids	**800**		**4**	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645).

Reported:
06/01/11 11:07

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**FAYBLAMAR DAIRY FARM**		
Project/Facility Number:	SAMPLE A	Date Received :	04/21/11
Funding Code:	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
*	Non-NELAP accredited

Report Authorized by:

Sally Geyston

Sally Geyston
Sample Prep Unit Supervisor

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645).

Reported:
05/01/11 11:07

Route

Lab Sheet Color: Pink

IEPA-DWPC-FOS-LAB SHEET

Field ID No.:

09-Funding Code: WPZ6 10-Agency Routing MO 2-File Code: AGRI 13-Sampling Type: X

15-Reporting: B 16-DID: Basin _____ County 189 Plant __ 17-Sampling Program: AG

18-Facility/Sample Pt: Fay Bla Mac Dairy Farm/Sample A

19-Begin Date: Y Y M M D D 11 04 19 20-Begin H H M M 16 45

23-Instructions to Lab: _____ 21-Collected by: JDS 22-Transported by: JDS

27-Received By: UPS Date: Y Y M M D D 11 04 20

Received By: _____ Date: Y Y M M D D

Composite Sample

Ending Time: 5 2 9 F 0 Y Y M M D D

Ending Time: 5 2 9 F 0 H H M M (24-hr.clock)

Circle One: Effluent Stream Specials
Influent Process Flows WWTP
Sludge Cooling Water Other

Program: Livestock

NPDES No:

Receiving Stream Name:

Receiving Stream Conditions (velocity/etc):

Effluent Conditions:

Weather Conditions: Partly sunny, warm, about 70°F

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JUN - 3 2011
IL Environmental Protection Agency
MARION REGIONAL OFFICE

03-Lab Parameter Group: EFF05

Additional Lab Parameters	Field Parameters	Results
	502F0 Air Temp ('C)	
	502F0 Water Temp ('C)	
	504F0 Dissolved 02	
	503F0 Conductance	
	500F0 pH	

Comments and Unusual Conditons and Serverity: (If applicable, Stamp "No Visable Problems This Visit")

Remarks: Sample collected from upstream trib to creek

Sampling Techniques: Grab

Trip ID: SD10997

FOR LABOR

LAB ID NO

2°

Sample Received By:

Date Received: APR 21 2011

Time Received: 9:30 AM PM

Lab Section:

Supervisor:

cc:

Mail To:

Joe Stitely
BOW/DWPC/FOS
Marion Regional Office

IL 532-157
NPC 526 6/

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	FAYBLAMAR DAIRY FARM		
Project/Facility Number:	SAMPLE A	Date Received :	04/21/11
Funding Code:	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**SAMPLE A**	Lab Sample ID:	**SD10997-01**
Matrix:	Water	Collected By: JDS	Date/Time Collected: 04/19/11 16:45
Sample Type:	Grab	Sample Depth:	Total Depth:

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method:	5210B	Prepared:	04/21/11 11:19
Units:	mg/L	Analyzed:	04/26/11 08:41

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
BOD 5DAY	**3.80**		2.00	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/22/11 10:59
Units:	mg/L	Analyzed:	04/27/11 12:21

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrate (	ND		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	05/11/11 09:51
Units:	mg/L	Analyzed:	05/11/11 14:51

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	ND		0.10	

Reported:
06/01/11 11:07

Route

Lab Sheet Color: Pink IEPA-DWPC-FOS-LAB SHEET Field ID No.:

09-Funding Code: WPZ6 10-Agency Routing MO 12-File Code: AGRI 13-Sampling Type: X

15-Reporting B 16-DID: Basin _____ County 189 Plant __ 17-Sampling Program: AG

18-Facility/Sample Pt: Fay Bla Mac Dairy Farm/Sample B

19-Begin Date: Y Y M M D D 110419 20-Begin H H M M 1650

23-Instructions to Lab: _____ 21-Collected by: BER 22-Transported by: JDS

27-Received By: UPS Date: Y Y M M D D 110420

Received By: _____ Date: Y Y M M D D

Composite Sample

Ending Time: 5 2 9 F 0 Y Y M M D D

Ending Time: 5 2 9 F 0 H H M M (24-hr.clock)

Circle One: Effluent Stream Specials
Influent Process Flows WWTP
Sludge Cooling Water Other

Program: Livestock

NPDES No:

Receiving Stream Name:

Receiving Stream Conditions (el, etc):

Effluent Conditions:

Weather Conditions: Partly sunny, warm, about 70°F

03-Lab Parameter Group: EFF05

Additional Lab Parameters	Field Parameters	Results
	502F0 Air Temp (°C)	
	502F0 Water Temp (°C)	
	504F0 Dissolved 02	
	503F0 Conductance	
	500F0 pH	

Comments and Unusual Conditons and Serverity: (If applicable, Stamp "No Visable Problems This Visit")

Remarks Sample collected from creek immediately downstream of land application site

Sampling Techniques: Trip ID: _____

Grab

FOR LABOR SD10998 2°

LAB ID NC

Sample Re.

Date Received: APR 21 2011

Time Received: 9:30 AM _____ PM

Lab Section:

Supervisor:

cc:

Mail To: Jo Stitely
BOW/DWPC/FOS
Marion Regional Office

IL 532-157
WPC 526 6/

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JUN 13 2011
IL Environmental Protection Agency
MARION REGIONAL OFFICE

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	FAYBLAMAR DAIRY FARM		
Project/Facility Number:	SAMPLE B	Date Received :	04/21/11
Funding Code:	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**SAMPLE B**	Lab Sample ID:	**SD10998-01**
Matrix:	Water	Collected By: BER	Date/Time Collected: 04/19/11 16:50
Sample Type:	Grab	Sample Depth:	Total Depth:

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method:	5210B	Prepared:	04/21/11 11:19
Units:	mg/L	Analyzed:	04/26/11 08:41

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
BOD 5DAY	**623**		2.00	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/22/11 10:59
Units:	mg/L	Analyzed:	04/27/11 12:26

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrate	**0.258**		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	05/11/11 09:51
Units:	mg/L	Analyzed:	05/11/11 14:51

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**26.4**		1.00	

Reported:
06/01/11 11:07

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**FAYBLAMAR DAIRY FARM**		
Project/Facility Number:	SAMPLE B	Date Received :	04/21/11
Funding Code:	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**SAMPLE B**	Lab Sample ID:	**SD10998-01**
Matrix:	Water	Collected By: BER	Date/Time Collected: 04/19/11 16:50
Sample Type:	Grab	Sample Depth:	Total Depth:

pH

Method:	150.1	Prepared:	04/21/11 13:47
Units:	PH	Analyzed:	04/21/11 13:50

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**7.2**		0.0	

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/26/11 13:10
Units:	mg/L	Analyzed:	04/28/11 10:06

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**2.81**		0.0050	

Total Suspended Solids by Standard Method 2540D

Method:	2540D	Prepared:	04/22/11 07:48
Units:	mg/L	Analyzed:	04/22/11 07:48

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Suspended Solids	**490**		4	

Reported:
06/04/11 11:07

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	FAYBLAMAR DAIRY FARM		
Project/Facility Number:	SAMPLE B	Date Received :	04/21/11
Funding Code:	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
*	Non-NELAP accredited

Report Authorized by:

Sally Geyston

Sally Geyston
Sample Prep Unit Supervisor

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Reported:
06/01/11 11:07

Route

Lab Sheet Color: Pink IEPA-DWPC-FOS-LAB SHEET Field ID No.:

09-Funding Code: WPZ6 10-Agency Routing MO 12-File Code: AGRI 13-Sampling Type: X

15-Reporting: B 16-DID: Basin _____ County 189 Plant __ 17-Sampling Program: AG

18-Facility/Sample Pt: Fay BLaMar Dairy Farm/Sample C

19-Begin Date: Y Y M M D D 11 04 19 20-Begin H H M M 16 50

23-Instructions to Lab: _____ 21-Collected by: JDS 22-Transported by: JDS

Composite Sample

Ending Time: 5 2 9 F 0 _____ Y Y M M D D

Ending Time: 5 2 9 F 0 _____ H H M M (24-hr.clock)

03-Lab Parameter Group: EFF05

Additional Lab Parameters	Field Parameters	Results
	502F0 Air Temp ('C)	
	502F0 Water Temp ('C)	
	504F0 Dissolved 02	
	503F0 Conductance	
	500F0 pH	

27-Received By: UPS Date: Y Y M M D D 11 04 20

Received By: _____ Date: Y Y M M D D

Circle One: Effluent Stream Specials
Influent Process Flows WWTP
Sludge Cooling Water Other

Program: Livestock

NPDES No:

Receiving Stream Name:

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MARION REGIONAL OFFICE

Receiving Stream Conditions (velocity, etc)

Effluent Conditions:

Weather Conditions: Partly sunny, warm about 70°F

Comments and Unusual Conditons and Serverity: (If applicable, Stamp "No Visable Problems This Visit")

Remarks Collected downstream at riprapped crossing, several hundred feet downstream of discharge point

Sampling Techniques: Trip ID: _____ No. _____

Grab

FOR LAB SD11000 2

LAB ID I

Sample I

Date Received: APR 21 2011

Time Received: 9:30 AM _____ P

Lab Section:

Supervisor:

cc:

Mail To:

Joe Slitely
BOW/DWPC/FOS
Marion Regional Office

IL 532-157
WPC 526 6/

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**FAYBLAMAR DAIRY FARM**		
Project/Facility Number:	SAMPLE C	Date Received :	04/21/11
Funding Code:	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**SAMPLE C**	Lab Sample ID:	**SD11000-01**
Matrix:	Water	Collected By: JDS	Date/Time Collected: 04/19/11 16:50
Sample Type:	Grab	Sample Depth:	Total Depth:

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method:	5210B	Prepared:	04/21/11 11:19
Units:	mg/L	Analyzed:	04/26/11 08:41

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
BOD 5DAY	**1060**		2.00	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/22/11 10:59
Units:	mg/L	Analyzed:	04/27/11 12:28

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrate	**0.464**		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	05/11/11 09:51
Units:	mg/L	Analyzed:	05/11/11 14:51

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**48.2**		1.00	

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Reported:
06/01/11 11:07

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	FAYBLAMAR DAIRY FARM		
Project/Facility Number:	SAMPLE C	Date Received :	04/21/11
Funding Code:	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**SAMPLE C**	Lab Sample ID:	**SD11000-01**
Matrix:	Water	Collected By: JDS	Date/Time Collected: 04/19/11 16:50
Sample Type:	Grab	Sample Depth:	Total Depth:

pH

Method:	150.1	Prepared:	04/21/11 13:47
Units:	PH	Analyzed:	04/21/11 13:50

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**7.1**		0.0	

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/26/11 13:10
Units:	mg/L	Analyzed:	04/28/11 10:23

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**4.17**		0.0050	

Total Suspended Solids by Standard Method 2540D

Method:	2540D	Prepared:	04/22/11 07:48
Units:	mg/L	Analyzed:	04/22/11 07:48

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Suspended Solids	**660**		4	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645).

Reported:
06/01/11 11:07

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**FAYBLAMAR DAIRY FARM**		
Project/Facility Number:	SAMPLE C	Date Received :	04/21/11
Funding Code :	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
*	Non-NELAP accredited

Report Authorized by:

Sally Geyston

Sally Geyston
Sample Prep Unit Supervisor

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645).

Reported:
06/01/11 11:07

Route

Lab Sheet Color: Pink

IEPA-DWPC-FOS-LAB SHEET

Field ID No.:

09-Funding Code: WPZ6 10-Agency Routing MO 2-File Code: AGRI 13-Sampling Type: X

15-Reporting: B 16-DID: Basin _____ County 189 Plant __ 17-Sampling Program: AG

18-Facility/Sample Pt: Fox BlaMac Dairy Farm/Sample C-1

19-Begin Date: Y Y M M D D 11 04 19 20-Begin H H M M 1700

23-Instructions to Lab: _____ 21-Collected by: JDS 22-Transported by: JDS

Composite Sample

Ending Time: 5 2 9 F 0 _____ Y Y M M D D

Ending Time: 5 2 9 F 0 _____ H H M M (24-hr.clock)

03-Lab Parameter Group: EFF05

Additional Lab Parameters	Field Parameters	Results
	502F0 Air Temp ('C)	
	502F0 Water Temp ('C)	
	504F0 Dissolved 02	
	503F0 Conductance	
	500F0 pH	

27-Received By: UPS Date: Y Y M M D D 11 04 20

Received By: _____ Date: Y Y M M D D

Circle One: Effluent Stream Specials
Influent Process Flows WWTP
Sludge Cooling Water Other

Program: Livestock

NPDES No:

Receiving Stream Name:

Receiving Stream Conditions (velocity, etc)

JUN - 3 2011

IL Environmental Protection
MARION REGIONAL OFF...

Effluent Conditions:

Weather Conditions: Partly sunny, warm about 70°F

Comments and Unusual Conditons and Serverity: (If applicable, Stamp "No Visable Problems This Visit")

Remarks Collected from creek about 500 feet downstream of discharge point

Sampling Techniques: Trip ID: _____

Grab

SD11001

2

FOR LABORT

LAB ID NO.

Sample Received By:

Date Received: APR 2 1 2011

Time Received: 9:30 AM PM

Lab Section:

Supervisor: 4/14

cc:

Mail To:

Joe Stitely
BOW/DWPC/FOS
Marion Regional Office

IL 532-157
REC 521 6/

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**FAYBLAMAR DAIRY FARM**		
Project/Facility Number:	SAMPLE C-1	Date Received :	04/21/11
Funding Code:	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**SAMPLE C-1**	Lab Sample ID:	**SD11001-01**
Matrix:	Water	Collected By: JDS	Date/Time Collected: 04/19/11 17:00
Sample Type:	Grab	Sample Depth:	Total Depth:

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method:	5210B	Prepared:	04/21/11 11:19
Units:	mg/L	Analyzed:	04/26/11 08:41

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
BOD 5DAY	**40.0**		2.00	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/22/11 10:59
Units:	mg/L	Analyzed:	04/27/11 12:30

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrate (	ND		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	05/11/11 09:51
Units:	mg/L	Analyzed:	05/11/11 14:51

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**2.14**		0.10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645).

Reported:
06/01/11 11:06

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**FAYBLAMAR DAIRY FARM**		
Project/Facility Number:	SAMPLE C-1	Date Received :	04/21/11
Funding Code:	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00
Client Sample ID:	**SAMPLE C-1**	Lab Sample ID:	**SD11001-01**
Matrix:	Water	Collected By: JDS	Date/Time Collected: 04/19/11 17:00
Sample Type:	Grab	Sample Depth:	Total Depth:

pH

Method:	150.1	Prepared:	04/21/11 13:47
Units:	PH	Analyzed:	04/21/11 13:50

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**7.3**		0.0	

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/26/11 13:10
Units:	mg/L	Analyzed:	04/28/11 10:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**1.63**		0.0050	

Total Suspended Solids by Standard Method 2540D

Method:	2540D	Prepared:	04/22/11 07:48
Units:	mg/L	Analyzed:	04/22/11 07:48

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Suspended Solids	**112**		4	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645).

Reported:
06/01/11 11:06

Illinois Env ronmental Protection Agency Laboratory
825 N Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	FAYBLAMAR D .IRY FARM		
Project/Facility Number:	SAMPLE C-1	Date Received :	04/21/11
Funding Code:	WPZ6	Visit Number:	
Trip ID:		Temperature C:	2.00

Notes and Definitions

ND	Analyte NOT DETECTED at or . ove the reporting limit
NR	Not Reported
*	Non-NELAP accredited

Report Authorized by:

Sally Geyston

Sally Geyston
Sample Prep Unit Supervisor

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645).

Reported:
06/01/11 11:06